



GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING, SUBSTITUTING THE LOWER JUNCTION BOX FOR THE HANDHOLE SHOWN IN THAT DETAIL.

THE PLANS WILL SHOW WHICH CIRCUIT LEGS(S) ARE CONNECTED TO EACH INSTALLATION AND THE REQUIRED NUMBER OF LUMINAIRES.

THE UPPER JUNCTION BOX (FOR FUSE ASSEMBLIES) SHALL CONFORM TO THE APPLICABLE PROVISIONS OF SECTION 653.2.2 OF THE STANDARD SPECIFICATIONS; SHALL BE SUITABLE FOR SURFACE MOUNTING WITH EXTERNAL MOUNTING LUGS; AND SHALL HAVE A HINGED COVER, WING-NUT FASTENERS, AND PADLOCK HASP. ALL HARDWARE SHALL BE STAINLESS STEEL. FURNISH O-Z/GEDNEY YW-120603, SPRING CITY HC-12-06-04, CROUSE-HINDS WTB-120604, OR APPROVED EQUAL.

MEDIAN CONFIGURATIONS VARY; NOT ALL CASES CAN BE SHOWN IN THIS DETAIL.

WIRING FOR THE FIRST LUMINAIRE PAIR IS SHOWN IN SOLID LINES. WIRING FOR ADDITIONAL LUMINAIRE PAIRS, WHERE REQUIRED, IS SHOWN IN DOTTED LINES.

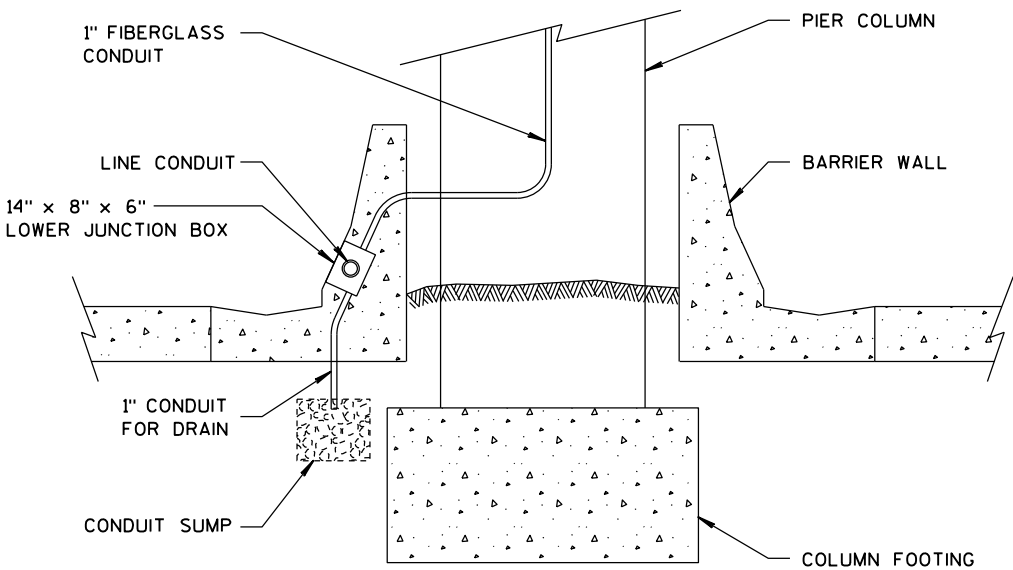
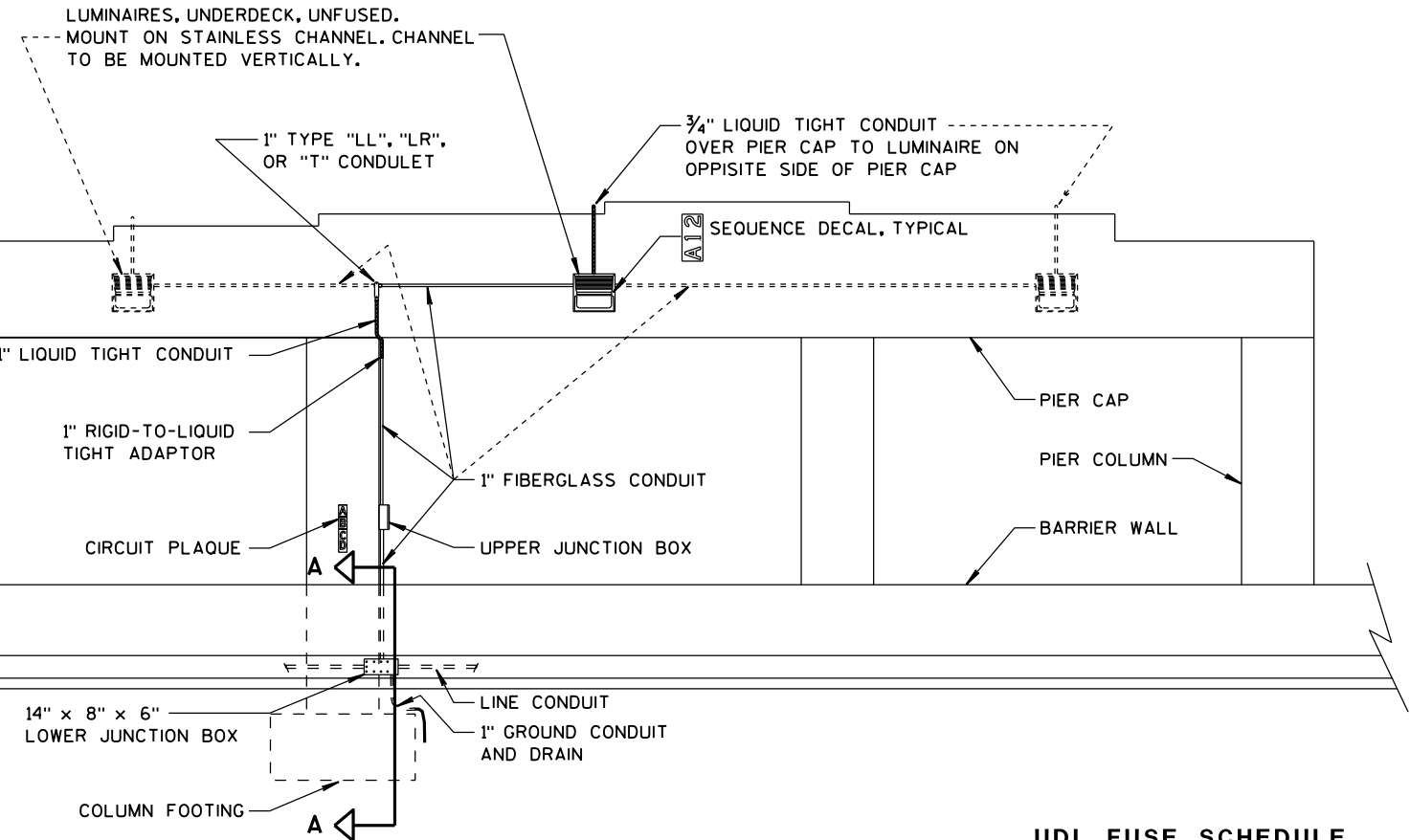
LEGEND

A . B . X . Y . Z	UNGROUND CIRCUT CONDUCTORS
N	GROUND CIRCUT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
φ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	UNFUSED LUMINAIRE
	SINGLE POLE (1P) FUSE ASSEMBLY
•	TERMINAL
•	SPLICE
—	CONDUCTOR

UDL FUSE SCHEDULE

LINE VOLTAGE φ-GROUND	TOP JUNCTION BOX FUSES
120VAC	5 A
208VAC	5 A
240VAC	5 A
480VAC	3 A

TYPICAL UNDERDECK
LIGHTING INSTALLATION



SECTION "A-A"

ELECTRICAL DETAILS
UNDERDECK LIGHTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

*Electrical Details Underdeck Lighting***References:**

[FDM15-5 Attachment 30.5](#) and [30.6](#) for conventional symbols.
[Standard Spec. 659](#) Lighting

Bid items associated with this drawing:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
659.0600	Underdeck Lighting (location).....	EACH
659.1200 - 1299	Luminaires Underdeck LED (Category)	EACH

Standardized Special Provisions associated with this drawing:

<u>STSP NUMBER</u>	<u>TITLE</u>
659.XXXX.S	Lamp, Ballast, LED, Switch Disposal by Vendor
659.XXXX.S	Lamp, Ballast, LED, Switch Disposal by Department

Other SDDs associated with this drawing:

SDD 10A1	Electrical Handhole Wiring
SDD 10A15	Electrical Details Underdeck Lighting sheet "b" must be used in conjunction with this drawing.

Design Notes:

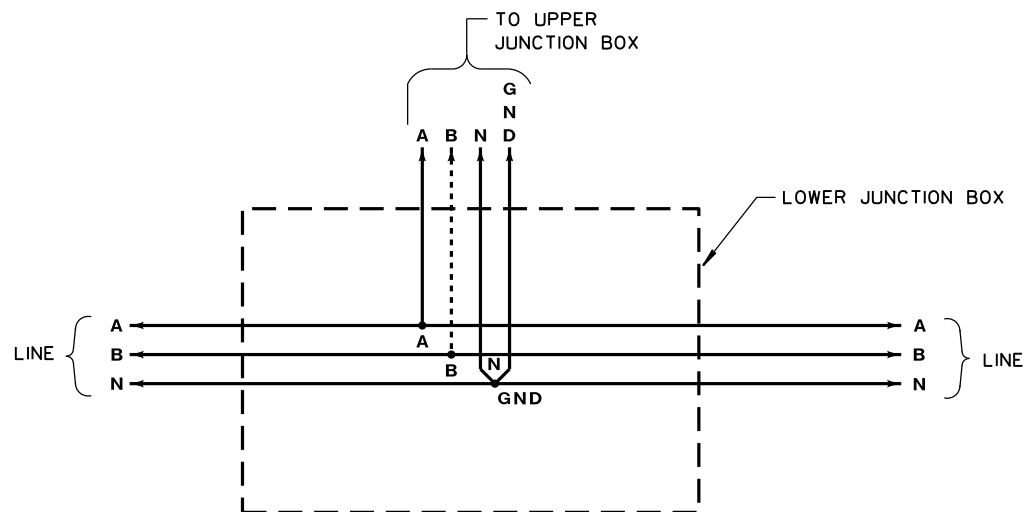
Use this SDD in conjunction with the SDD for Electrical Handhole Wiring. Underdeck Lighting is installed to Maintain Pavement illumination uniformity in conjunction with continuous freeway lighting, except that it may be omitted for narrow underpasses and is sometimes omitted where there is high mast lighting.

Contact Person:

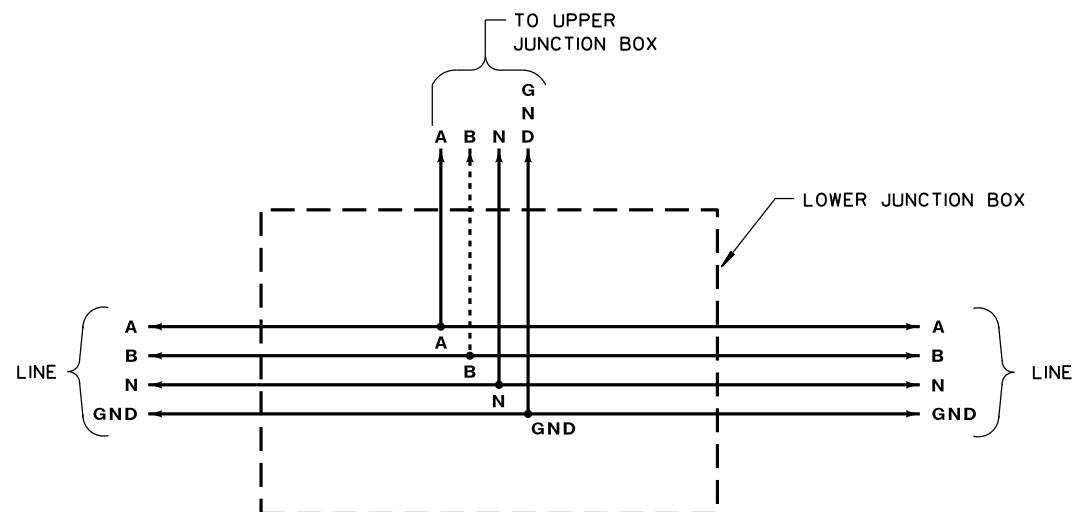
Ahmet Demirbilek (414) 220-6801
(414) 322-9606 (Mobile)



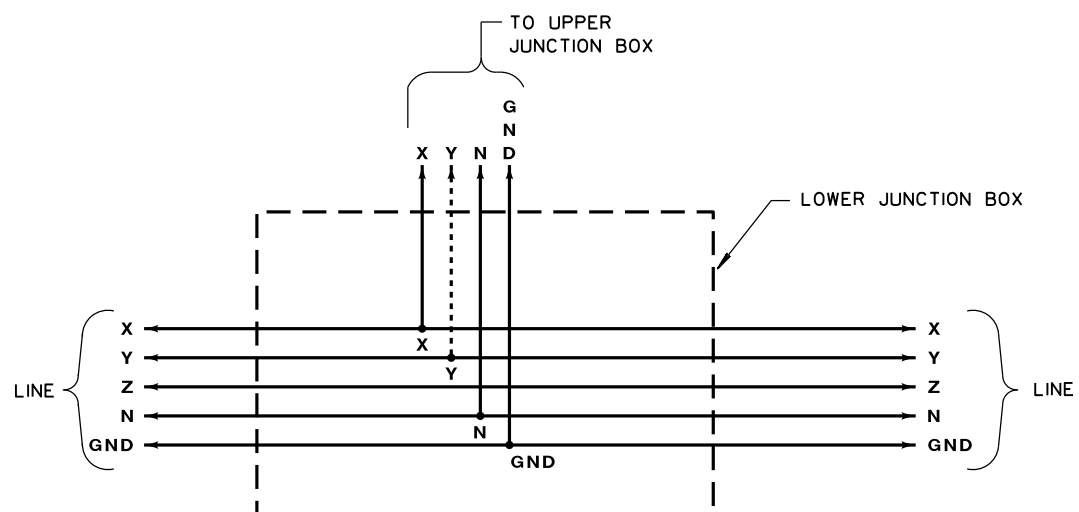
SDD 10A15-b Electrical Details Underdeck Lighting



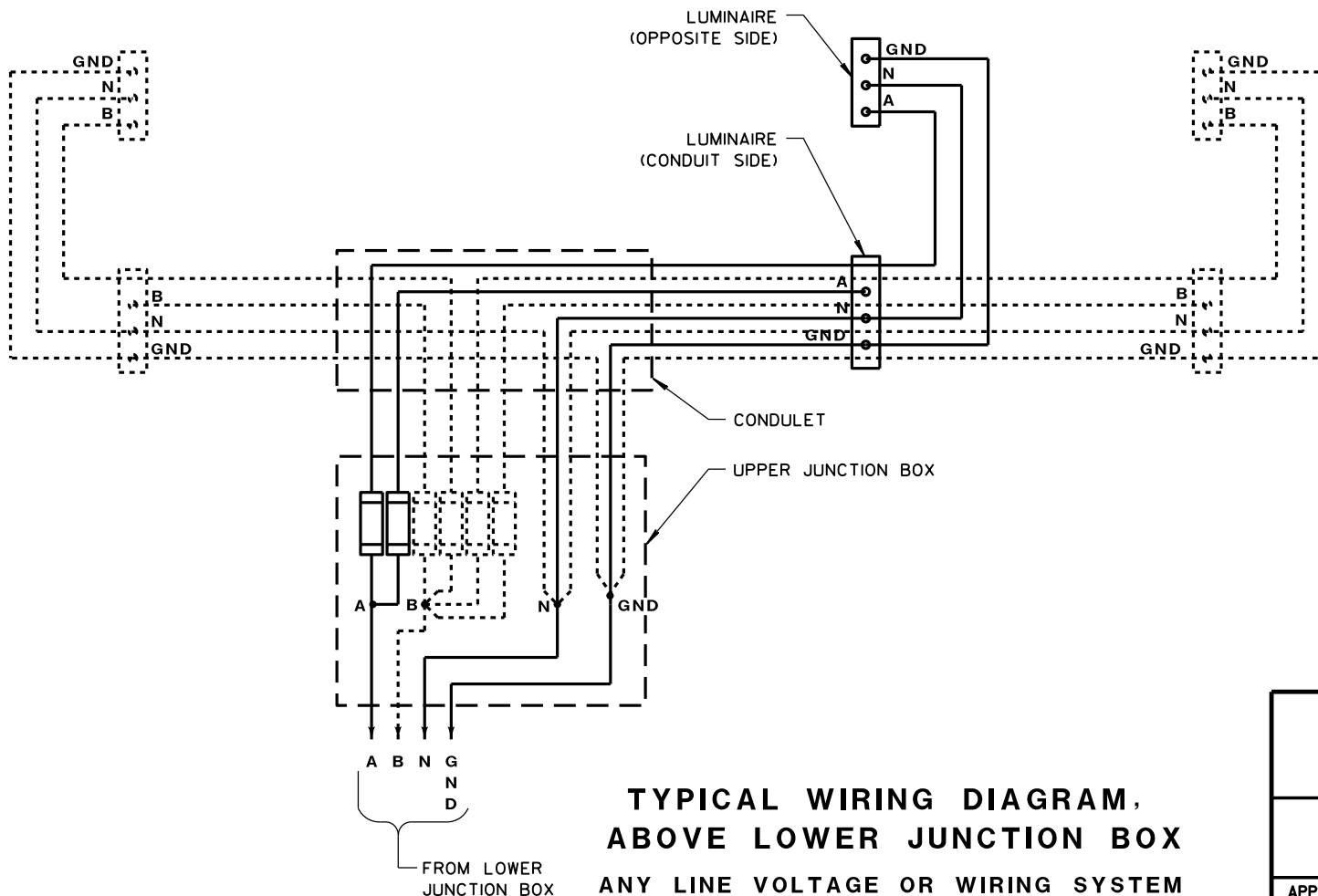
TYPICAL WIRING DIAGRAM, LOWER JUNCTION BOX
GROUNDED NEUTRAL SYSTEM
1- ϕ 240/480VAC OR 3 WIRE OR 480VAC 2 WIRE



TYPICAL WIRING DIAGRAM, LOWER JUNCTION BOX
ISOLATED NEUTRAL SYSTEM
1- ϕ 120/240VAC OR 240/480VAC 3 WIRE



TYPICAL WIRING DIAGRAM, LOWER JUNCTION BOX
ISOLATED NEUTRAL SYSTEM
3- ϕ 208Y/120VAC OR 480Y/277VAC 4 WIRE



TYPICAL WIRING DIAGRAM, ABOVE LOWER JUNCTION BOX
ANY LINE VOLTAGE OR WIRING SYSTEM
(NO. 14 AWG TAPS AND BRANCHES)

ELECTRICAL DETAILS
UNDERDECK LIGHTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/26/2013
DATE
FHWA

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

*Electrical Details Underdeck Lighting***References:**

[FDM15-5 Attachment 30.5](#) and [30.6](#) for conventional symbols.
[Standard Spec. 655](#) Electrical Wiring

Bid items associated with this drawing:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
655.0600 - 0699	Electrical Wire Lighting (AWG).....	EACH

Standardized Special Provisions associated with this drawing:

<u>STSP NUMBER</u>	<u>TITLE</u>
NONE	

Other SDDs associated with this drawing:

[SDD 10A15](#) Electrical Details Underdeck Lighting sheet "a" must be used in conjunction with this drawing.

Design Notes:

Refer to guidance form sheet "a" of SDD 10A15.

Contact Person:

Ahmet Demirbilek (414) 220-6801
(414) 322-9606 (Mobile)